

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 6395-67118	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 03/33506	International filing date (day/month/year) 22/10/2003	(Earliest) Priority Date (day/month/year) 24/10/2002
Applicant THE GOVERNMENT OF THE UNITED STATES OF AMERICA ...		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 03/33506

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

Methods and apparatus are disclosed for leak testing the ventilation system (10) of an environmental enclosure using a gas that is naturally present in ambient air, such as nitrogen, oxygen, argon, or carbon dioxide, as a tracer gas. In one embodiment, a gas filter (16) capable of filtering all of the tracer gas from the air flowing through the filter (16) is installed in the ventilation system (10). Testing is performed by operating the ventilation system (10) to cause outside air to flow through the filter (16) and into the enclosure (12) so as to establish positive pressurization inside the enclosure (12). A gas monitor (24) placed inside the enclosure (12) is used to detect for the presence of leaks in the ventilation system (10) by monitoring the concentration of the tracer gas inside the enclosure (12).

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01M3/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 2003/035087 A1 (MURAYAMA MASAYUKI) 20 February 2003 (2003-02-20) column 13 - column 22	1, 12, 18
X	WO 02/063294 A (AIRCUIITY INC) 15 August 2002 (2002-08-15) page 12 - page 14	1-6, 8-11
X	US 2 996 661 A (ROBERTS JOHN A) 15 August 1961 (1961-08-15) claims 1-8	1, 12, 18
X	US 3 302 449 A (ROBERTS JOHN A) 7 February 1967 (1967-02-07) column 2 - column 3	1
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

15 November 2004

Date of mailing of the international search report

19/11/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 207 460 B1 (GOODWIN WILLIAM M ET AL) 27 March 2001 (2001-03-27) column 5 - column 16 -----	1-11
Y	EP 0 640 822 A (MILLIPORE INVEST HOLDINGS) 1 March 1995 (1995-03-01) column 8 - column 11; claims 1-4 -----	1-11
Y	US 4 515 007 A (HERMAN RAYMOND L) 7 May 1985 (1985-05-07) column 4 - column 7 -----	12-17
Y	US 4 459 844 A (BURKHART CHRISTOPHER W) 17 July 1984 (1984-07-17) column 6 - column 9 -----	12-17
Y	US 2002/036760 A1 (HASHIMOTO MICHINORI ET AL) 28 March 2002 (2002-03-28) column 3 - column 8 -----	18-26
Y	US 5 127 264 A (SCHMALZ HENRY H) 7 July 1992 (1992-07-07) column 2 - column 5 -----	18-26

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Information on patent family members

International Application No

PCT/US 03/33506

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003035087	A1	20-02-2003	JP 9266148 A	07-10-1997
			JP 9266147 A	07-10-1997
			JP 9275055 A	21-10-1997
			JP 9283401 A	31-10-1997
			US 6535270 B1	18-03-2003
WO 02063294	A	15-08-2002	US 2002144537 A1	10-10-2002
			EP 1390742 A2	25-02-2004
			WO 02063294 A2	15-08-2002
US 2996661	A	15-08-1961	CH 379443 A	15-07-1964
			DE 1192851 B	13-05-1965
			FR 1248844 A	23-12-1960
			GB 888447 A	31-01-1962
US 3302449	A	07-02-1967	NONE	
US 6207460	B1	27-03-2001	AT 263969 T	15-04-2004
			AU 2613400 A	01-08-2000
			DE 60009660 D1	13-05-2004
			DE 60009660 T2	19-08-2004
			EP 1144995 A1	17-10-2001
			JP 2002535619 T	22-10-2002
			WO 0042427 A1	20-07-2000
			US 2001019844 A1	06-09-2001
EP 0640822	A	01-03-1995	DE 69409736 D1	28-05-1998
			DE 69409736 T2	01-10-1998
			EP 0640822 A2	01-03-1995
			JP 3571084 B2	29-09-2004
			JP 7244023 A	19-09-1995
			US 5581017 A	03-12-1996
US 4515007	A	07-05-1985	NONE	
US 4459844	A	17-07-1984	NONE	
US 2002036760	A1	28-03-2002	JP 2002158170 A	31-05-2002
US 5127264	A	07-07-1992	NONE	